



AMBETRONICS®

ISO 9001:2015
Quality



ISO 14001:2015
Environment



ISO 45001:2018
Health & Safety



34+

Years of Expertise

Largest Indian
Manufacturer

7 Patented
Products

Exporting to
More than
15 + Countries

Visit our Factory
for Live
Demonstration

Recognized
R&D Dept. by
Govt. of India



Complete Range of Gas, Flame & Heat Detection Solutions

Manufacturing of :

- Toxic Gas Detectors/Transmitters
- HC Gas Detectors/Transmitters
- Oxygen Gas Detectors/Transmitters
- VOC Gas Detectors/Transmitters
- Portable Gas Detectors
- Wireless Gas Detectors
- UV /IR Flame and Heat Detectors
- Ember Detectors

- Percent O₂ Analyzer
- Trace Oxygen Analyzer
- Dew Point Analyzer
- Bio Gas Analyzer
- Stand alone Gas Monitors
- IoT System for remote monitoring on cloud & Alerts via SMS/E-mail/Voice call

On site Services For :

- On site Calibration Services
- On site AMC/CMC
- On site Installation and commissioning
- Customized Development
- Repairing and Calibration of any Make and any Model

Manufactured by :



AMBETRONICS ENGINEERS PVT. LTD.

17-B, 16, 14A, Tarun Industrial Estate, New Nagardas Road, Mogra Pada, Andheri (E.) Mumbai - 400 069, India.



+91-22-69623389
+91-22-61673021/22



+91-93207 37646
+91-91674 18106



sales8@ambetronics.com
sales11@ambetronics.com

Follow us on



Version :

GAS DETECTION SYSTEM-4PG-R18-01-11-2025

Biogas Plant

Chemical
Plant

Fertilizer Plant

Gas Skid

EV
Charging
Station

LPG Storage Tanks

Chemical
Waste
Recycling
Plant

Power Plants

Commercial
Kitchen for
Restaurants/Hotels

Loop Powered Gas Detector for Oxygen/NDIR/Toxic

GT-1033-WP

- 2 Line L.C.D. Display
- Pluggable smart Sensor
- Toxic/O₂/NDIR/CH₄ Gas Detection
- 2 wire 4-20mA O/P & HART O/P available
- IP66 Enclosure

Green Colour Display for OK
Red Colour Display for Alarm
Blue Colour Display for Sensor Open

GT-1033-FLP

Intrinsically Safe
Design Patent No. 335348-001

- 2 Line L.C.D. Display
- Pluggable Sensor
- Toxic/O₂/NDIR/CH₄ Gas Detection
- HART O/P available
- Ex d (ia) IIC T6 Gb
- IP68

Green Colour Display for OK
Red Colour Display for Alarm
Blue Colour Display for Sensor Open

Smart Gas Detector for Oxygen/Toxic/Combustible

GT-2511-FLP-HCF

Design Patent No. 364963-001

SIL2, Ex, IECEx, UKCA, RoHS, HART, FIELDCOMM GROUP

- PPM, %V/V, %LEL detection
- High-contrast OLED display
- Configurable STEL/TWA thresholds
- Optional MODBUS RS-485 communication
- Optional HART protocol integration
- IP66 Enclosure

Smart Gas Detector for Oxygen/Toxic/Combustible Gas (3 Wire / 4 Wire) - L.C.D. Display

GT-2511-WP-HCF

- L.C.D. Display
- 3 Wire, 4-20mA O/P
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P
- IP66 Enclosure

Green Colour Display for OK
Red Colour Display for Alarm
Blue Colour Display for Sensor Open

GT-2511-FLP-HCF

Intrinsically Safe
Design Patent No. 364963-001

- L.C.D. Display
- 3 Wire with HART
- With Hooter cum Flasher
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66/IP68 Enclosure

Green Colour Display for OK
Red Colour Display for Alarm
Blue Colour Display for Sensor Open

Smart Gas Detector Point IR for Combustible Gas

GT-2511-FLP-IR

Design Patent No. 364963-001

SIL2, Ex, IECEx, UKCA, RoHS, HART, FIELDCOMM GROUP

- Pluggable hot-swap sensors
- OLED display
- Isolated 4-20mA O/P
- Dual alarm and one fault relay
- Optional HART protocol
- STEL/TWA limits for toxic gases
- Optional RS-485 MODBUS communication

Smart Gas Detector for Oxygen/Toxic/Combustible Gas (3 Wire / 4 Wire) - L.E.D. Display

GT-2500-WP-HCF

- 2 Line L.E.D. Display
- 3 Wire, 4-20mA O/P
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P
- IP66 Enclosure

Green Colour Display for OK
Red Colour Display for Alarm
Blue Colour Display for Sensor Open

GT-2500-FLP-HCF

Intrinsically Safe
Design Patent No. 364963-001

- 2 Line L.E.D. Display
- 3 Wire 4-20mA
- Isolated RS-485 O/P
- With Hooter cum Flasher
- Ex d IIC T6 Gb
- IP66/IP68 Enclosure

Green Colour Display for OK
Red Colour Display for Alarm
Blue Colour Display for Sensor Open

Smart Gas Detector Point IR for Combustible Gas - Lumina Series

GT-2511-FLP

SIL2, Ex, IECEx, UKCA, RoHS, HART, FIELDCOMM GROUP

- Resistant to poisoning and etching
- Optional RS-485 MODBUS communication
- Standard isolated 4-20mA output
- Password-protected user programming
- HART protocol for field integration
- Optional Alarm acknowledgment from both sides

Displays specific sensor error codes
Dual alarm and fail-safe relays
Detects gases in multiple ranges

Smart Gas Detector - Pico Safe Series

GT-4110-WP

- Smart pluggable sensor
- LCD digital display
- Measures PPM, %V/V, %LEL
- 4-20mA O/P
- RS-485 MODBUS RTU communication
- Built-in electronics test mode

Green Colour Display for OK
Red Colour Display for Alarm
Blue Colour Display for Sensor Open

GT-4110-FLP

- LCD digital display
- Measures PPM, %V/V, %LEL
- 4-20mA O/P
- RS-485 MODBUS RTU communication
- Built-in electronics test mode

Green Colour Display for OK
Red Colour Display for Alarm
Blue Colour Display for Sensor Open

LNG/LPG/CNG/PNG (3 Wire) Gas Leak Detector

GT-4220-WP-HCF

- 1 x 4 digit L.E.D. Display
- 2 Nos. Relay
- Isolated RS-485 O/P or
- Isolated 4-20mA O/P
- IP65 Enclosure

GT-4220-FLP-HCF

Design Patent No. 335348-001

- 1 x 4 digit L.E.D. Display
- 2 Nos. Relay
- Isolated RS-485 O/P or
- Isolated 4-20mA O/P
- Ex d IIC T6 Gb • IP66/IP68 Enclosure

Smart Dual Gas Detector for Oxygen/Toxic/Combustible Gas

GT-5022-FLP-HCF

Design Patent No. 382730-001

- Digital Display
- Pluggable Gas Sensor
- 2x 4-20mA O/P
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P

GT-5022-WP-HCF

- Digital Display
- Pluggable Gas Sensor
- 2x 4-20mA O/P
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P
- Highly resistant to poisoning and etching.

Smart Triple Gas Detector for Oxygen/Toxic/Combustible Gas

GT-6022-FLP

Design Patent No. 343391-001

- LCD display
- High resistance to poisoning
- PPM, %V/V, %LEL detection
- Standard 4-20mA signal O/P
- RS-485 with MODBUS RTU
- Electronics 'Test Mode' provided

GT-6022-WP

- LCD display
- High resistance to poisoning
- PPM, %V/V, %LEL detection
- Standard 4-20mA signal O/P
- RS-485 with MODBUS RTU
- Electronics 'Test Mode' provided

Stand Alone Smart Gas Detector / Monitor

GA-3511-WP-D

- L.C.D. Display
- 3 Nos. Relay
- 4-20mA O/P
- Isolated RS-485 O/P
- 230VAC
- IP 65 Enclosure

GA-3511-FLP-D

Design Patent No. 343391-001

- L.C.D. Display
- 2 Nos. Relay
- 4-20mA O/P
- Isolated RS-485 O/P
- 230VAC
- Ex d IIC T6 Gb
- IP66 Enclosure

Smart Gas Detector

GT-5011-FLP-HCF

Design Patent No. 382730-001

- Digital Display
- Pluggable Gas Sensor
- 1x 4-20mA O/P with HART
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P

Battery Powered Gas Detector Oxygen/Toxic/Combustible Gas

WGD-100-FLP

- Battery Operated
- upto 1 year Battery life
- SMS / E-mail & Voice call Facility to control room
- IP-66 Enclosure

Dual Channel Gas Monitor System

GM-2200-WP



- Dual Channel
- I/P 4-20mA
- 2 Nos. Relay
- RS-485 O/P

GM-2200-FLP



- Dual Channel
- I/P 4-20mA
- 2 Nos. Relay
- RS-485
- Ex d IIC T6 Gb
- IP-66

Addressable Gas Monitoring System

GM-416-WP



- Ring topology possibility
- 3 Nos. Relay
- Multidrop RS-485

• All channels MODBUS ID monitoring system

GM-416-FLP



- Ring topology possibility
- 3 Nos. Relay
- Multidrop RS-485
- All channels MODBUS ID monitoring system

Conventional Multichannel Gas Monitoring System - 8 Ch.

TC-800-WP



- 8 channel
- I/P 4-20mA
- 2 Common Relay O/P
- Add-on Relay
- Isolated RS-485 O/P
- IP65

TC-800-FLP



- 8 channel
- I/P 4-20mA
- 2 Common Relay O/P
- Add-on Relay
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66

Conventional Multichannel Gas Monitoring System - 8 display

UIP-880-WP



- Microcontroller based technology
- 8 Channel input 4-20mA programmable by user
- Easy on-line field calibration

• Optional RS-485 MODBUS serial port

UIP-880-FLP



- Microcontroller based technology
- 8 Channel input 4-20mA programmable by user
- Easy on-line field calibration
- Optional RS-485 MODBUS serial port

Conventional Multichannel Gas Monitoring System - 16 Ch.

UIP-1600-WP



- 16 Channel
- I/P 4-20mA
- 4 Common Relay O/P
- Add-on Relays
- Isolated RS-485 O/P
- USB data Logging
- IP65

UIP-1600-FLP



- 16 Channel
- I/P 4-20mA
- Add-on Relays
- 4 Common Relay O/P
- USB data Logging
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66

Addressable Gas Monitoring System with Data Logging

- Latest microcontroller ensures accuracy

DL-42-16-WP



- 16 programmable 4-20mA channels
- Relay alarm acknowledgment feature
- Optional RS-485 Modbus port
- Optional USB host for reports

DL-42-16-FLP



- RS-485 Modbus serial option
- 16, 4-20mA programmable channels
- Relay alarm acknowledgment feature
- Latest microcontroller for high accuracy
- USB host for data reports

Conventional Multichannel Gas Monitoring System

- HMI Size Supported: IM-48 -16/24/32 7", 10.2" & 15"



- 4-20mA Input optional
- RS-485 Input
- RS-485 Output optional
- TCP / IP (Optional)
- Alarm indication
- 24 VDC or Potential free 8/16/24 channel Relay outputs for Valves & Alarms

RK-220-8 Channel



- 3 Digit LED Display
- 20 Segment Bar graph
- I/P: 4-20mA
- O/P: 4-20mA (Isolated)
- 4 Relay O/P
- RS-485 O/P (Isolated)
- Panel Size in mm : 500 x 500 x 400 (W) x (H) x (D)

RK-220-16 Channel



- 3 Digit LED Display
- 20 Segment Bar graph
- I/P: 4-20mA
- O/P: 4-20mA (Isolated)
- 4 Relay O/P
- RS-485 O/P (Isolated)
- Panel Size in mm : 600 x 600 x 400 (W) x (H) x (D)

Multichannel Gas Monitoring System - 80 Channel

RK-220-80 Channel



- Per Channel
- 3 Digit LED Display
- 20 Segment Bar graph
- I/P: 4-20mA
- O/P: 4-20mA (Isolated)
- 4 Relay O/P
- RS-485 O/P (Isolated)
- SCADA Software
- Redundant Power Supply
- Ethernet (Optional)
- SMS Facility (Optional)

Complete Panel Size in mm : 2300 (H) x 600(W) x 600 (D)

Smart Gas Monitoring System

SM-48



- 8-40 ch. MODBUS monitoring system
- Multidrop RS-485 reduces cabling
- Ring topology offers redundancy
- USB data recording & export
- In built Battery backup
- IP65

Addressable Multichannel Gas Monitoring System (IoT) (Upto 48 Channel)

SIG 4GTy-FLP



- 4 DPDT Relay
- Isolated RS-485 O/P for SCADA/PLC
- MQTT Protocol
- 2 Settable Alarm for each channel
- Ex d IIC T6 Gb
- IP66

SIG 4GTy-WP



- 4 DPDT Relay
- Isolated RS-485 O/P for SCADA/PLC
- MQTT Protocol
- 2 Settable Alarm for each channel
- Ethernet • Wi-Fi
- Lamp Test facility

Addressable Multi Channel Gas Monitors (Upto 80 Channel)

MCC-1322-WP



- Modbus RS-485 Input
- 2 Common Relay
- 1 fault Relay
- Add-on Relay
- Isolated RS-485 O/P
- IP65

MCC-1322-FLP



- Modbus RS-485 Input
- 2 Common Relay
- 1 fault Relay
- Add-on Relay
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66

Hydrogen Gas Detection System for Battery Room

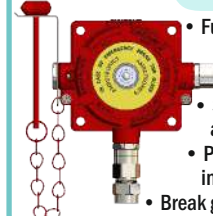
TCP-02-WP



- 2 lines, 8 characters LCD Display
- Real time alarm indication
- 4 digital input
- 3 Digital O/P of rating "2A"
- Alarm Setting will control Exhaust Fan

Manual Call Point

CRM-HTR-FLP



- Fully certified by CIMFR
- Small, lightweight and easy to install.
- Perfect for installation in hazardous areas
- Break glass system provides immediate visual feedback

Portable Gas Detector

PG-100-D



- Diffusion Type
- Intrinsically safe
- Pluggable Sensor Module
- EC/Catalytic/NDIR/PID
- STEL / TWA Alarms
- 50,000 log records
- > 10 hours backup
- USB interface
- Ex ia IIC T6 Ga

PG-100-S



- Suction Type
- Intrinsically safe
- Pluggable Sensor Module
- EC/Catalytic/NDIR/PID
- Integrated pump
- STEL/TWA Alarms
- 50,000 log records
- > 10 hours backup
- USB interface
- Ex ia IIC T6 Ga

Portable Gas Detector

PG-130-LCD Display



- One-Button Simple Operation
- Panic Alarm Alert
- Vibration & LED Alerts
- High Sensitivity Electrochemical Sensor
- LCD Gas Concentration Display
- Non-Replaceable Lithium Battery

PG-130-0 LED Display



- Single Button Easy Operation
- Clear Display in Darkness
- Real-Time Gas Concentration Display
- Man-Down Alarm for Safety
- Rechargeable Long-Lasting Battery
- Data Logging, can be set as 1-3600 seconds
- Wireless Network - BLE Wireless Models only
- Wireless Frequency- Bluetooth 2402~2480 MHz
- Wireless Models Only

Portable Gas Detector

PG-140-0 LED Display



- Single Button Easy Operation
- Clear Display in Darkness
- Real-Time Gas Concentration Display
- Toxic Gas Level Monitoring

- Rechargeable Long-Lasting Battery
- Data Logging, can be set as 1-3600 seconds
- Wireless Network - BLE Wireless Models only
- Wireless Frequency- Bluetooth 2402~2480 MHz
- Wireless Models Only

Portable Gas Detector

PG-150



- One-Button Operation
- LCD Gas Concentration Display
- Password Protected Menu
- Customizable Alarms & Alerts
- Vibration & LED Alerts
- Intrinsically Safe Design

- High Sensitivity Electrochemical Sensor
- Non-Replaceable Lithium Battery
- Durable Polycarbonate Housing

Portable Gas Detector- Dual Channel

PG-200-D



- EC /NDIR sensor
- 2-Line LCD with backlight tri-colour display (Red/ Green/Blue)
- STEL/TWA Alarms
- 50,000 log records
- > 10 hours backup
- USB interface

PG-200-S



- EC /NDIR sensor
- 2-Line LCD with backlight tri-colour display (Red/ Green/Blue)
- STEL/TWA Alarms
- 50,000 log records
- > 10 hours backup
- USB interface

Smart Gas Analyzer - Oxygen

GA-3500-PM-O₂



- 0-100% V/V
- 2 Line L.E.D. Display
- Built in O₂ Sensor
- 4 -20mA O/P
- 3 Relay O/P
- RS-485 O/P
- Panel Mounted

GA-3511-PM-O₂



- 0-100% V/V
- 8 x 2 L.C.D. Display
- Built in O₂ Sensor
- 4 -20mA O/P
- 3 Relay O/P
- RS-485 O/P
- Panel Mounted

Portable Biogas Analyzer

BIO-400-S-PEL



- Special Suitcase casing
- 128 x 64, Graphic L.C.D. display & backlight
- Event logging
- CH₄, CO₂, O₂, H₂S Detection
- USB interface

- Optional 1,00,000 logging records
- Li-po rechargeable Battery

Biogas Analyser - Panel Mount

BIO-400-S-PANEL



- Panel type housing
- 128 x 64, Graphic L.C.D. display & backlight
- Event logging
- USB interface

- CH₄, CO₂, O₂, H₂S Detection
- Optional 1,00,000 logging records
- Li-po rechargeable Battery

UV & Triple IR Flame Detector

FLD-3311-WP-HCF



- Fast response < 3 sec.
- UV & 3IR Detection
- 3 Relay O/P
- 4-20mA O/P

- Bluetooth, RS-485 or HART configurable
- Built in Hooter cum Flasher

UV & Triple IR Flame (Radiant Energy) Detector

FLD-3311-FLP-HCF



- 3 Relay O/P
- 4-20mA O/P
- Exd IIC T6 IP66
- UV & 3IR Detection
- Fast response < 3 sec.

- Bluetooth, RS-485 or HART configurable

UV & Triple IR Flame Detector

FLD-3311-FLP-SS-HCF



- 3 Relay O/P
- 4-20mA O/P

- Exd IIC T6 IP66
- SS Enclosure
- UV & 3IR Detection
- Fast response < 3 sec.

- Bluetooth, RS-485 or HART configurable

Ember (Radiant Energy) Detector

EMB-7700-FLP-HCF



- Insensitive to sunlight

- Date-time stamped event logging
- Built in self test (BIT)

- User programmable via Bluetooth, HART or RS-485.
- Test Lamp compatibility for safe Test

UV Flame Detector

FLD-0011-Small



- UV Sensor Flame Detection
- Detects All Flame Sizes
- Configurable via RS-485
- Test Lamp Compatibility
- Flexible Output Options

- Defined Visual Detection Range
- Customizable Detection Zones
- Fast, Accurate Flame Response
- Multiple output options for maximum flexibility & compatibility • Optional MODBUS Communication
- Relay for Free Contact

UV & Triple IR Flame (Radiant Energy) Detector-JB-75



UK CA HART FIELD COMM GROUP

- SIL2 certified for safety compliance
- Excellent false alarm immunity
- Digital, analog, and relay outputs

- Built-in automatic self-check system
- Clear line-of-sight detection range
- RS-485 and HART programmability
- Compatible with test lamp device

UV/IR Flame Detector Test Lamp

FTU-3311

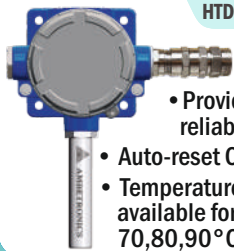


- Battery Operated
- Cover Range : 2 meter

- Continuous Operation cycle : 70-90 Cycle Maximum
- Operating Temp. : 0°C to 50°C

Fixed Temperature Heat Detector

HTD-8800-FLP-JB-70



- Provides a fast & reliable response
- Auto-reset Operation
- Temperature setpoint available for alarm (50, 60, 70, 80, 90°C & 110°C)

Fixed Temperature Heat Detector

HTD-8811-WP



- Provides a fast & reliable response by sensing heat build-up
- Factory Preset to required Temp.

- Wide ranges of Temp. 50°C to 60°C

Flame Detector Mounting Stand

Mounting stand



- Total Length 275 mm
- Material : Aluminium (LM-6)
- 180° Rotation

Flame Detector Sun Shield

JB IIC Sunshield



- Diameter (Outer) : JB IIC : 149 mm
- Total Length : JB 90 : 112 mm
- : JB IIC : 126 mm
- : JB 90 : 103 mm
- Material : Neoprene rubber

Sun Shield

